JÃÂ¶rg Libuda

List of Publications by Year
in descending order

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276 papers	12,563 citations	20759 60 h-index	35952 97 g-index
289 all docs	289 docs citations	289 times ranked	9168 citing authors

#	Article	IF	Citations
1	Support nanostructure boosts oxygen transfer to catalytically active platinum nanoparticles. Nature Materials, 2011, 10, 310-315.	13.3	748
2	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	13.3	469
3	Maximum Nobleâ€Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. Angewandte Chemie - International Edition, 2014, 53, 10525-10530.	7.2	384
4	Molecular beam experiments on model catalysts. Surface Science Reports, 2005, 57, 157-298.	3.8	327
5	Structure and defects of an ordered alumina film on NiAl(110). Surface Science, 1994, 318, 61-73.	0.8	311
6	CO Adsorption on Pd Nanoparticles:Â Density Functional and Vibrational Spectroscopy Studies. Journal of Physical Chemistry B, 2003, 107, 255-264.	1.2	262
7	Surface Science and Model Catalysis with Ionic Liquidâ€Modified Materials. Advanced Materials, 2011, 23, 2571-2587.	11.1	181
8	Catalytic Activity and Poisoning of Specific Sites on Supported Metal Nanoparticles. Angewandte Chemie - International Edition, 2002, 41, 2532-2535.	7.2	170
9	Hydroxy1 driven reconstruction of the polar NiO(111) surface. Surface Science, 1994, 315, L977-L982.	0.8	163
10	Fluctuations and Bistabilities on Catalyst Nanoparticles. Science, 2004, 304, 1639-1644.	6.0	156
11	Preparation and characterization of model catalysts: from ultrahigh vacuum to in situ conditions at the atomic dimension. Journal of Catalysis, 2003, 216, 223-235.	3.1	155
12	Size-Dependent Oxidation Mechanism of Supported Pd Nanoparticles. Angewandte Chemie - International Edition, 2006, 45, 3693-3697.	7.2	140
13	Title is missing!. Topics in Catalysis, 2001, 15, 201-209.	1.3	129
14	Methane Activation by Platinum: Critical Role of Edge and Corner Sites of Metal Nanoparticles. Chemistry - A European Journal, 2010, 16, 6530-6539.	1.7	126
15	Interaction of rhodium with hydroxylated alumina model substrates. Surface Science, 1997, 384, 106-119.	0.8	119
16	Toward Ionic-Liquid-Based Model Catalysis: Growth, Orientation, Conformation, and Interaction Mechanism of the [Tf₂N]^{â^'} Anion in [BMIM][Tf₂N] Thin Films on a Well-Ordered Alumina Surface. Langmuir, 2010, 26, 7199-7207.	1.6	116
17	Oxygen Storage at the Metal/Oxide Interface of Catalyst Nanoparticles. Angewandte Chemie - International Edition, 2005, 44, 7601-7605.	7.2	115
18	Ceria reoxidation by CO2: A model study. Journal of Catalysis, 2010, 275, 181-185.	3.1	115

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19	Interaction of oxygen with palladium deposited on a thin alumina film. Surface Science, 2002, 501, 270-281.	0.8	111
20	Surface Reactivity of Pd Nanoparticles Supported on Polycrystalline Substrates As Compared to Thin Film Model Catalysts:Â Infrared Study of CO Adsorption. Journal of Physical Chemistry B, 2004, 108, 3603-3613.	1.2	110
21	Water Chemistry on Model Ceria and Pt/Ceria Catalysts. Journal of Physical Chemistry C, 2012, 116, 12103-12113.	1.5	108
22	Model Catalytic Studies of Liquid Organic Hydrogen Carriers: Dehydrogenation and Decomposition Mechanisms of Dodecahydro-<i>N</i>-ethylcarbazole on Pt(111). ACS Catalysis, 2014, 4, 657-665.	5.5	106
23	Near ambient pressure XPS investigation of the interaction of ethanol with Co/CeO2(111). Journal of Catalysis, 2013, 307, 132-139.	3.1	105
24	Adsorption and reaction of methanol on supported palladium catalysts: microscopic-level studies from ultrahigh vacuum to ambient pressure conditions. Physical Chemistry Chemical Physics, 2007, 9, 3541-3558.	1.3	100
25	Epitaxial Cubic Ce₂O₃ Films via Ceâ€“CeO₂ Interfacial Reaction. Journal of Physical Chemistry Letters, 2013, 4, 866-871.	2.1	99
26	Atomically Dispersed Pd, Ni, and Pt Species in Ceria-Based Catalysts: Principal Differences in Stability and Reactivity. Journal of Physical Chemistry C, 2016, 120, 9852-9862.	1.5	99
27	Isomerization and Hydrogenation of<i>cis</i>-2-Butene on Pd Model Catalyst. Journal of Physical Chemistry C, 2008, 112, 11408-11420.	1.5	94
28	A molecular beam/surface spectroscopy apparatus for the study of reactions on complex model catalysts. Review of Scientific Instruments, 2000, 71, 4395.	0.6	93
29	Ligand Effects in SCILL Model Systems: Siteâ€Specific Interactions with Pt and Pd Nanoparticles. Advanced Materials, 2011, 23, 2617-2621.	11.1	91
30	Effects of deposited Pt particles on the reducibility of CeO2(111). Physical Chemistry Chemical Physics, 2011, 13, 11384.	1.3	89
31	Dehydrogenation of Dodecahydroâ€‹<i>N</i>â€ethylcarbazole on Pd/Al₂O₃ Model Catalysts. Chemistry - A European Journal, 2011, 17, 11542-11552.	1.7	89
32	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. Nature Materials, 2018, 17, 592-598.	13.3	89
33	Adsorption sites, metal-support interactions, and oxygen spillover identified by vibrational spectroscopy of adsorbed CO: A model study on Pt/ceria catalysts. Journal of Catalysis, 2012, 289, 118-126.	3.1	88
34	The CO oxidation kinetics on supported Pd model catalysts: A molecular beam/in situ time-resolved infrared reflection absorption spectroscopy study. Journal of Chemical Physics, 2001, 114, 4669.	1.2	87
35	Storing energy with molecular photoisomers. Joule, 2021, 5, 3116-3136.	11.7	86
36	The interaction of oxygen with alumina-supported palladium particles. Catalysis Letters, 2001, 71, 5-13.	1.4	85

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37	Oxide-based nanomaterials for fuel cell catalysis: the interplay between supported single Pt atoms and particles. Catalysis Science and Technology, 2017, 7, 4315-4345.	2.1	84
38	Boosting the activity of hydrogen release from liquid organic hydrogen carrier systems by sulfur-additives to Pt on alumina catalysts. Catalysis Science and Technology, 2019, 9, 3537-3547.	2.1	84
39	The Growth and Properties of Pd and Pt on Al₂O₃/NiAl(110). Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 1381-1386.	0.9	83
40	Metalâ€“oxide interaction for metal clusters on a metal-supported thin alumina film. Surface Science, 1999, 442, L964-L970.	0.8	83
41	On the thermal stability of metal particles supported on a thin alumina film. Surface Science, 2003, 523, 103-110.	0.8	83
42	Operando DRIFTS and DFT Study of Propane Dehydrogenation over Solid- and Liquid-Supported Ga_{<i>x</i>}Pt_{<i>y</i>} Catalysts. ACS Catalysis, 2019, 9, 2842-2853.	5.5	83
43	Particle size dependent CO dissociation on alumina-supported Rh: a model study. Chemical Physics Letters, 1997, 279, 92-99.	1.2	80
44	Particle size dependent adsorption and reaction kinetics on reduced and partially oxidized Pd nanoparticles. Physical Chemistry Chemical Physics, 2007, 9, 1347.	1.3	79
45	Dehydrogenation Mechanism of Liquid Organic Hydrogen Carriers: Dodecahydroâ€<i>N</i>â€ethylcarbazole on Pd(111). Chemistry - A European Journal, 2013, 19, 10854-10865.	1.7	79
46	The influence of OH groups on the growth of rhodium on alumina: a model study. Catalysis Letters, 2000, 68, 19-24.	1.4	77
47	Ionic liquid based model catalysis: interaction of [BMIM][Tf2N] with Pd nanoparticles supported on an ordered alumina film. Physical Chemistry Chemical Physics, 2010, 12, 10610.	1.3	77
48	KOH-promoted Pt/Al2O3 catalysts for water gas shift and methanol steam reforming: An operando DRIFTS-MS study. Applied Catalysis B: Environmental, 2017, 201, 169-181.	10.8	77
49	Highly Effective Propane Dehydrogenation Using Gaâ€“Rh Supported Catalytically Active Liquid Metal Solutions. ACS Catalysis, 2019, 9, 9499-9507.	5.5	76
50	CO oxidation on partially oxidized Pd nanoparticles. Journal of Catalysis, 2006, 242, 58-70.	3.1	73
51	Dehydrogenation of Dodecahydroâ€<i>N</i>â€ethylcarbazole on Pt(111). ChemSusChem, 2013, 6, 974-977.	3.6	73
52	Towards an efficient liquid organic hydrogen carrier fuel cell concept. Energy and Environmental Science, 2019, 12, 2305-2314.	15.6	73
53	Adsorption and Activation of CO on Co₃O₄(111) Thin Films. Journal of Physical Chemistry C, 2015, 119, 16688-16699.	1.5	72
54	Oxygen-induced Restructuring of a Pd/Fe3O4 Model Catalyst. Catalysis Letters, 2006, 107, 189-196.	1.4	70

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55	Reaction Kinetics on Heterogeneous Model Catalysts. Journal of Catalysis, 2001, 204, 378-392.	3.1	69
56	Size and Structure Effects Controlling the Stability of the Liquid Organic Hydrogen Carrier Dodecahydro-<i>N</i>-ethylcarbazole during Dehydrogenation over Pt Model Catalysts. Journal of Physical Chemistry Letters, 2014, 5, 1498-1504.	2.1	69
57	Adsorption on oxide surfaces: structure and dynamics. Surface Science, 1994, 307-309, 1148-1160.	0.8	68
58	A route to continuous ultra-thin cerium oxide films on Cu(1 1 1). Surface Science, 2009, 603, 3382-3388.	0.8	67
59	Interaction of CO with Pd clusters supported on a thin alumina film. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 1546-1551.	0.9	63
60	Infrared study of CO adsorption on alumina supported palladium particles. Surface Science, 1998, 402-404, 428-432.	0.8	62
61	SO₂ Adsorption on Pt(111) and Oxygen Precovered Pt(111): A Combined Infrared Reflection Absorption Spectroscopy and Density Functional Study. Journal of Physical Chemistry C, 2011, 115, 479-491.	1.5	61
62	Reactivity of atomically dispersed Pt²⁺ species towards H₂: model Ptâ€“CeO₂ fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	1.3	61
63	Adsorption, decomposition and oxidation of methanol on alumina supported palladium particles. Physical Chemistry Chemical Physics, 2002, 4, 3909-3918.	1.3	60
64	A Molecular Beam Study of the NO + CO Reaction on Pd(111) Surfaces. Journal of Physical Chemistry B, 2005, 109, 13272-13282.	1.2	60
65	Adsorption and reaction of NO2 on ordered alumina films and mixed bariaâ€“alumina nanoparticles: Cooperative versus non-cooperative reaction mechanisms. Journal of Catalysis, 2008, 260, 315-328.	3.1	60
66	CO dissociation characteristics on size-distributed rhodium islands on alumina model substrates. Journal of Chemical Physics, 1998, 108, 2967-2974.	1.2	58
67	Complex model catalysts under UHV and high pressure conditions: CO adsorption and oxidation on alumina-supported Pd particles. Journal of Molecular Catalysis A, 2000, 162, 51-66.	4.8	58
68	Size Dependent Reaction Kinetics on Supported Model Catalysts:Â A Molecular Beam/IRAS Study of the CO Oxidation on Alumina-Supported Pd Particles. Journal of Physical Chemistry B, 2001, 105, 3567-3576.	1.2	58
69	Microscopic Insights into Methane Activation and Related Processes on Pt/Ceria Model Catalysts. ChemPhysChem, 2010, 11, 1496-1504.	1.0	58
70	Structural characterization of platinum deposits supported on ordered alumina films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2259-2264.	0.9	57
71	Electronic Structure of Magnesiaâˆ’Ceria Model Catalysts, CO₂Adsorption, and CO₂Activation: A Synchrotron Radiation Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2011, 115, 8716-8724.	1.5	57
72	Formation of interface and surface oxides on supported Pd nanoparticles. Surface Science, 2006, 600, 2528-2542.	0.8	56

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73	Photochemical Energy Storage and Electrochemically Triggered Energy Release in the Norbornadieneâ€“Quadricyclane System: UVÂPhotochemistry and IR Spectroelectrochemistry in a Combined Experiment. Journal of Physical Chemistry Letters, 2017, 8, 2819-2825.	2.1	56
74	Energy Storage in Strained Organic Molecules: (Spectro)Electrochemical Characterization of Norbornadiene and Quadricyclane. ChemSusChem, 2016, 9, 1424-1432.	3.6	55
75	Vibrational structure of excited states of molecules on oxide surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 217-225.	0.8	53
76	Reaction Kinetics on Complex Model Catalysts under Single Scattering Conditions. Journal of Physical Chemistry B, 2002, 106, 4901-4915.	1.2	53
77	Cluster, facets, and edges: Site-dependent selective chemistry on model catalysts. Chemical Record, 2003, 3, 181-201.	2.9	53
78	Metal deposition in adsorbate atmosphere: growth and decomposition of a palladium carbonyl-like species. Surface Science, 1996, 346, 108-126.	0.8	52
79	Identifying surface species by vibrational spectroscopy: Bridging vs monodentate nitrates. Journal of Catalysis, 2008, 255, 127-133.	3.1	52
80	Growth and morphology of Rh deposits on an alumina film under UHV conditions and under the influence of CO. Surface Science, 1997, 391, 204-215.	0.8	50
81	Stabilization of Small Platinum Nanoparticles on Ptâ€“CeO₂Thin Film Electrocatalysts During Methanol Oxidation. Journal of Physical Chemistry C, 2016, 120, 19723-19736.	1.5	50
82	Insights in Reaction Mechanistics: Isotopic Exchange during the Metalation of Deuterated Tetraphenyl-21,23<i>D</i>-porphyrin on Cu(111). Journal of Physical Chemistry C, 2014, 118, 26729-26736.	1.5	47
83	Hydrogen spillover monitored by resonant photoemission spectroscopy. Journal of Catalysis, 2012, 285, 6-9.	3.1	45
84	Structure-Dependent Dissociation of Water on Cobalt Oxide. Journal of Physical Chemistry Letters, 2018, 9, 2763-2769.	2.1	44
85	Enhanced Activity and Selectivity in Catalytic Methanol Steam Reforming by Basic Alkali Metal Salt Coatings. Angewandte Chemie - International Edition, 2013, 52, 5028-5032.	7.2	43
86	Interactions Between the Room-Temperature Ionic Liquid [C₂C₁Im][OTf] and Pd(111), Well-Ordered Al₂O₃, and Supported Pd Model Catalysts from IR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 3188-3193.	1.5	43
87	Dissolution of Platinum Single Crystals in Acidic Medium. ChemPhysChem, 2019, 20, 2997-3003.	1.0	42
88	Transition from a molecular to a metallic adsorbate system:mCore-hole creation and decay dynamics for CO coordinated to Pd. Physical Review B, 1997, 55, 7233-7243.	1.1	41
89	The Molecular Origins of Selectivity in Methanol Decomposition on Pd Nanoparticles. Catalysis Letters, 2002, 84, 209-217.	1.4	41
90	Surface reactivity of Pd nanoparticles supported on polycrystalline substrates as compared to thin film model catalysts: infrared study of CH3OH adsorption. Journal of Catalysis, 2004, 223, 64-73.	3.1	41

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91	A Combined Density-Functional and IRAS Study on the Interaction of NO with Pd Nanoparticles: Identifying New Adsorption Sites with Novel Properties. Journal of Physical Chemistry C, 2008, 112, 16539-16549.	1.5	41
92	CO2 activation on single crystal based ceria and magnesia/ceria model catalysts. European Physical Journal B, 2010, 75, 89-100.	0.6	40
93	Quantitative Analysis of the Oxidation State of Cobalt Oxides by Resonant Photoemission Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6129-6136.	2.1	39
94	Hydrogen Production Based on Liquid Organic Hydrogen Carriers through Sulfur Doped Platinum Catalysts Supported on TiO₂. ACS Sustainable Chemistry and Engineering, 2021, 9, 6561-6573.	3.2	39
95	Oxidation, Reduction, and Reactivity of Supported Pd Nanoparticles:â€‰ Mechanism and Microkinetics. Journal of Physical Chemistry C, 2007, 111, 938-949.	1.5	38
96	Conversion of cis- and trans-2-butene with Deuterium on a Pd/Fe3O4 model catalyst. Journal of Catalysis, 2009, 265, 191-198.	3.1	38
97	Ionic Liquid-Modified Electrocatalysts: The Interaction of [C 1 C 2 Im][OTf] with Pt(1 1 1) and its Influence on Methanol Oxidation Studied by Electrochemical IR Spectroscopy. Electrochimica Acta, 2016, 188, 825-836.	2.6	38
98	Ligand Effects at Ionic Liquid-Modified Interfaces: Coadsorption of [C₂C₁Im][OTf] and CO on Pd(111). Journal of Physical Chemistry C, 2016, 120, 4453-4465.	1.5	37
99	Solar energy storage at an atomically defined organic-oxide hybrid interface. Nature Communications, 2019, 10, 2384.	5.8	37
100	The temperature dependent growth mode of nickel on the basal plane of graphite. Surface Science, 1995, 327, 321-329.	0.8	36
101	Functionalization of Oxide Surfaces through Reaction with 1,3-Dialkylimidazolium Ionic Liquids. Journal of Physical Chemistry Letters, 2013, 4, 30-35.	2.1	36
102	Liquid Organic Hydrogen Carriers: Surface Science Studies of Carbazole Derivatives. Chemical Record, 2014, 14, 879-896.	2.9	36
103	Electron spectroscopy studies of small deposited metal particles. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 301-306.	0.8	35
104	The surface structure matters: thermal stability of phthalic acid anchored to atomically-defined cobalt oxide films. Physical Chemistry Chemical Physics, 2016, 18, 10419-10427.	1.3	35
105	Modeling NO<i>_x</i> Storage Materials:â€‰ On the Formation of Surface Nitrites and Nitrates and Their Identification by Vibrational Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 6477-6486.	1.5	34
106	Atomically Defined Co₃O₄(111) Thin Films Prepared in Ultrahigh Vacuum: Stability under Electrochemical Conditions. Journal of Physical Chemistry C, 2018, 122, 7236-7248.	1.5	34
107	Nanofacet-resolved CO oxidation kinetics on alumina-supported Pd particles. Chemical Physics Letters, 2002, 354, 403-408.	1.2	33
108	Adsorption and Decomposition of Formic Acid on Model Ceria and Pt/Ceria Catalysts. Journal of Physical Chemistry C, 2013, 117, 12483-12494.	1.5	33

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109	Dehydrogenation of the Liquid Organic Hydrogen Carrier System Indole/Indoline/Octahydroindole on Pt(111). Journal of Physical Chemistry C, 2018, 122, 4470-4479.	1.5	33
110	Pd-Ga model SCALMS: Characterization and stability of Pd single atom sites. Journal of Catalysis, 2019, 369, 33-46.	3.1	33
111	The kinetics of methanol oxidation on a supported Pd model catalyst: molecular beam and TR-IRAS experiments. Journal of Catalysis, 2003, 213, 176-190.	3.1	32
112	Site Occupation and Activity of Catalyst Nanoparticles Monitored by In Situ Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2003, 42, 3035-3038.	7.2	32
113	Secondary Alcohols as Rechargeable Electrofuels: Electrooxidation of Isopropyl Alcohol at Pt Electrodes. ACS Catalysis, 2020, 10, 6831-6842.	5.5	32
114	Collision-induced desorption of hydrocarbons physisorbed on Au(111). Journal of Chemical Physics, 2000, 112, 1522-1530.	1.2	31
115	Strong Size Effects in Supported Ionic Nanoparticles: Tailoring the Stability of NO x Storage Catalysts. Catalysis Letters, 2008, 121, 311-318.	1.4	31
116	Regeneration of LOHC dehydrogenation catalysts: In-situ IR spectroscopy on single crystals, model catalysts, and real catalysts from UHV to near ambient pressure. Applied Surface Science, 2016, 360, 671-683.	3.1	31
117	Catalytically Triggered Energy Release from Strained Organic Molecules: The Surface Chemistry of Quadricyclane and Norbornadiene on Pt(111). Chemistry - A European Journal, 2017, 23, 1613-1622.	1.7	31
118	Electrochemically controlled energy storage in a norbornadiene-based solar fuel with 99% reversibility. Nano Energy, 2019, 63, 103872.	8.2	31
119	Porphyrin Metalation at the MgO Nanocube/Toluene Interface. ACS Applied Materials & Interfaces, 2015, 7, 22962-22969.	4.0	30
120	On the Role of Different Adsorption and Reaction Sites on Supported Nanoparticles during a Catalytic Reaction:Â NO Decomposition on a Pd/Alumina Model Catalystâ€. Journal of Physical Chemistry B, 2004, 108, 14244-14254.	1.2	29
121	Modeling NO_{<i>x</i>} Storage Materials: A High-Resolution Photoelectron Spectroscopy Study on the Interaction of NO₂ with Al₂O₃/NiAl(110) and BaO/Al₂O₃/NiAl(110). Journal of Physical Chemistry C, 2008, 112, 9835-9846.	1.5	29
122	Controlled selectivity for ethanol steam reforming reaction over doped CeO2 surfaces: The role of gallium. Applied Catalysis B: Environmental, 2020, 277, 119103.	10.8	29
123	Evidence for Pdx(CO)y compound formation on an alumina substrate. Chemical Physics Letters, 1995, 240, 429-434.	1.2	28
124	Functionalized Porphyrins on an Atomically Defined Oxide Surface: Anchoring and Coverage-Dependent Reorientation of MCTPP on Co₃O₄(111). Journal of Physical Chemistry Letters, 2016, 7, 555-560.	2.1	28
125	<i>Operando</i>Identification of the Reversible Skin Layer on Co₃O₄as a Three-Dimensional Reaction Zone for Oxygen Evolution. ACS Catalysis, 2022, 12, 3256-3268.	5.5	28
126	Low temperature decomposition of NO on ordered alumina films. Chemical Physics Letters, 2003, 381, 298-305.	1.2	27

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127	Surface Reactions of Dicyclohexylmethane on Pt(111). Journal of Physical Chemistry C, 2015, 119, 20299-20311.	1.5	27
128	Supported homogeneous catalyst makes its own liquid phase. Journal of Catalysis, 2015, 321, 32-38.	3.1	27
129	Katalytische AktivitÃt und Vergiftung spezifischer aktiver Zentren von Metall-Nanopartikeln auf TrÃgern. Angewandte Chemie, 2002, 114, 2643-2646.	1.6	26
130	Methane Oxidation Over Pd Supported on Ceriaâ€“Alumina Under Rich/Lean Cycling Conditions. Topics in Catalysis, 2013, 56, 410-415.	1.3	26
131	Structural Dynamics of Ultrathin Cobalt Oxide Nanoislands under Potential Control. Advanced Functional Materials, 2021, 31, 2009923.	7.8	26
132	CO adsorption and thermal stability of Pd deposited on a thin FeO(111) film. Surface Science, 2005, 586, 174-182.	0.8	25
133	Isothermal Kinetic Study of Nitric Oxide Adsorption and Decomposition on Pd(111) Surfaces:Â Molecular Beam Experiments. Journal of Physical Chemistry B, 2005, 109, 13283-13290.	1.2	25
134	Surface sites on Ptâ€“CeO₂mixed oxide catalysts probed by CO adsorption: a synchrotron radiation photoelectron spectroscopy study. Physical Chemistry Chemical Physics, 2014, 16, 24747-24754.	1.3	25
135	Sensitivity of CO oxidation toward metal oxidation state in ceria-supported catalysts: an operando DRIFTS-MS study. Catalysis Science and Technology, 2016, 6, 818-828.	2.1	25
136	Anchoring of carboxyl-functionalized porphyrins on MgO, TiO₂, and Co₃O₄ nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 24858-24868.	1.3	25
137	Electrochemically controlled energy release from a norbornadiene-based solar thermal fuel: increasing the reversibility to 99.8% using HOPG as the electrode material. Journal of Materials Chemistry A, 2020, 8, 15658-15664.	5.2	25
138	Adsorbate mobilities on catalyst nanoparticles studied via the angular distribution of desorbing products. Surface Science, 2004, 561, L218-L224.	0.8	24
139	Reaction kinetics on model catalysts: Molecular beam methods and time-resolved vibrational spectroscopy. Surface Science, 2005, 587, 55-68.	0.8	24
140	Model Catalytic Studies of Novel Liquid Organic Hydrogen Carriers: Indole, Indoline and Octahydroindole on Pt(111). Chemistry - A European Journal, 2017, 23, 14806-14818.	1.7	24
141	Structureâ€Dependent Anchoring of Organic Molecules to Atomically Defined Oxide Surfaces: Phthalic Acid on Co₃O₄(111), CoO(100), and CoO(111). Chemistry - A European Journal, 2016, 22, 5384-5396.	1.7	23
142	Dynamic equilibria in supported ionic liquid phase (SILP) catalysis: <i>in situ</i> IR spectroscopy identifies [Ru(CO)_xCl_y]_n species in water gas shift catalysis. Catalysis Science and Technology, 2018, 8, 344-357.	2.1	23
143	Interplay between the metal-support interaction and stability in Pt/Co₃O₄(111) model catalysts. Journal of Materials Chemistry A, 2018, 6, 23078-23086.	5.2	23
144	Controlling the Adsorption Kinetics via Nanostructuring: Pd Nanoparticles on TiO₂Nanotubes. Langmuir, 2010, 26, 14014-14023.	1.6	22

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145	Enhanced reactivity of Pt nanoparticles supported on ceria thin films during ethylenedehydrogenation. Physical Chemistry Chemical Physics, 2011, 13, 253-261.	1.3	22
146	Interactions of Imidazoliumâ€Based Ionic Liquids with Oxide Surfaces Controlled by Alkyl Chain Functionalization. ChemPhysChem, 2013, 14, 3673-3677.	1.0	22
147	Interface Controls Spontaneous Crystallization in Thin Films of the Ionic Liquid [C₂C₁Im][OTf] on Atomically Clean Pd(111). Langmuir, 2014, 30, 6846-6851.	1.6	22
148	Benzoic Acid and Phthalic Acid on Atomically Well-Defined MgO(100) Thin Films: Adsorption, Interface Reaction, and Thin Film Growth. Journal of Physical Chemistry C, 2015, 119, 26968-26979.	1.5	22
149	Preparation of complex model electrocatalysts in ultra-high vacuum and transfer into the electrolyte for electrochemical IR spectroscopy and other techniques. Review of Scientific Instruments, 2018, 89, 114101.	0.6	22
150	Electronic and geometric structure of adsorbates on oxide surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 347-355.	0.8	21
151	Metal Deposits on Thin Well Ordered Oxide Films: Morphology, Adsorption and Reactivity. , 1997, , 61-104.		21
152	Mechanism of Sulfur Poisoning and Storage: Adsorption and Reaction of SO₂ with Stoichiometric and Reduced Ceria Films on Cu(111). Journal of Physical Chemistry C, 2011, 115, 19872-19882.	1.5	21
153	Cobalt Oxide-Supported Pt Electrocatalysts: Intimate Correlation between Particle Size, Electronic Metalâ€“Support Interaction and Stability. Journal of Physical Chemistry Letters, 2020, 11, 8365-8371.	2.1	21
154	IR spectroscopy of a Pd-carbonyl surface compound. Chemical Physics Letters, 1997, 277, 513-520.	1.2	20
155	Molecular Beams and Model Catalysis: Activity and Selectivity of Specific Reaction Centers on Supported Nanoparticles. ChemPhysChem, 2004, 5, 625-631.	1.0	20
156	Local reaction rates and surface diffusion on nanolithographically prepared model catalysts: Experiments and simulations. Journal of Chemical Physics, 2005, 122, 084713.	1.2	20
157	Controlling metal/oxide interactions in bifunctional nanostructured model catalysts: Pd and BaO on Al2O3/NiAl(110). Surface Science, 2009, 603, L9-L13.	0.8	20
158	Ordering and Phase Transitions in Ionic Liquidâ€Crystalline Films. ChemPhysChem, 2010, 11, 1632-1636.	1.0	20
159	Preparation and Adsorption Properties of Pd Nanoparticles Supported on TiO₂Nanotubes. Journal of Physical Chemistry C, 2010, 114, 20146-20154.	1.5	20
160	Density Functional Calculations and IR Reflection Absorption Spectroscopy on the Interaction of SO₂ with Oxide-Supported Pd Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 13813-13824.	1.5	20
161	Alkyl chain length-dependent surface reaction of dodecahydro-<i>N</i>-alkylcarbazoles on Pt model catalysts. Journal of Chemical Physics, 2014, 140, 204711.	1.2	20
162	Adsorption, Ordering, and Metalation of Porphyrins on MgO Nanocube Surfaces: The Directional Role of Carboxylic Anchoring Groups. Journal of Physical Chemistry C, 2016, 120, 26879-26888.	1.5	20

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